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20

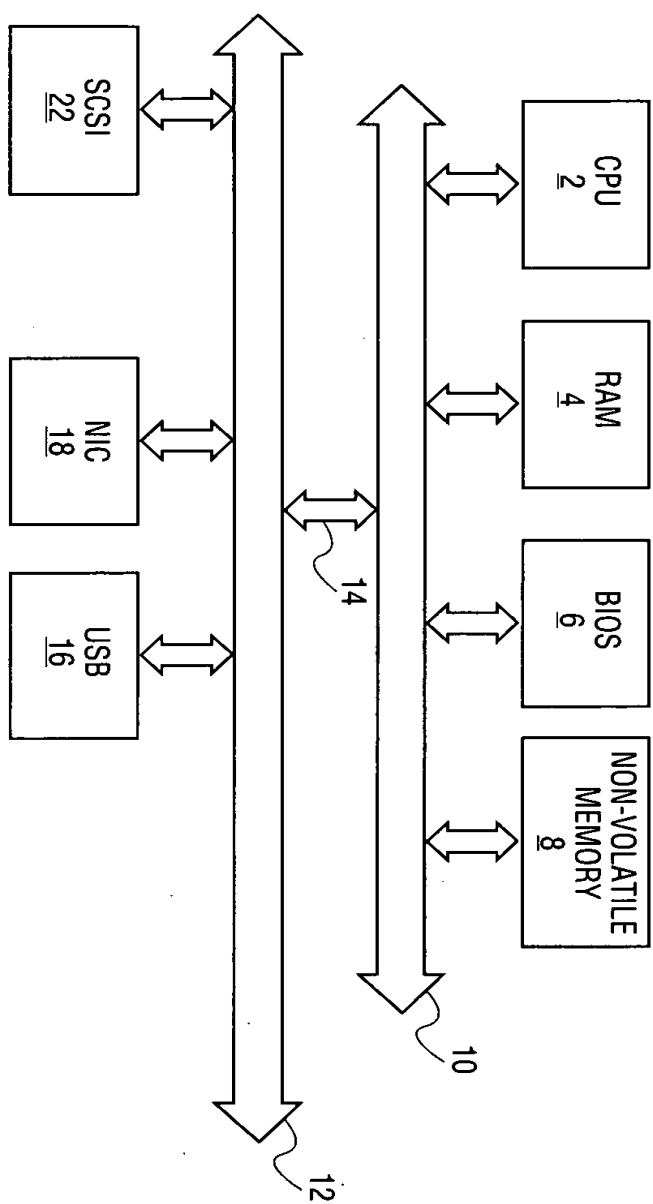


FIG. 1

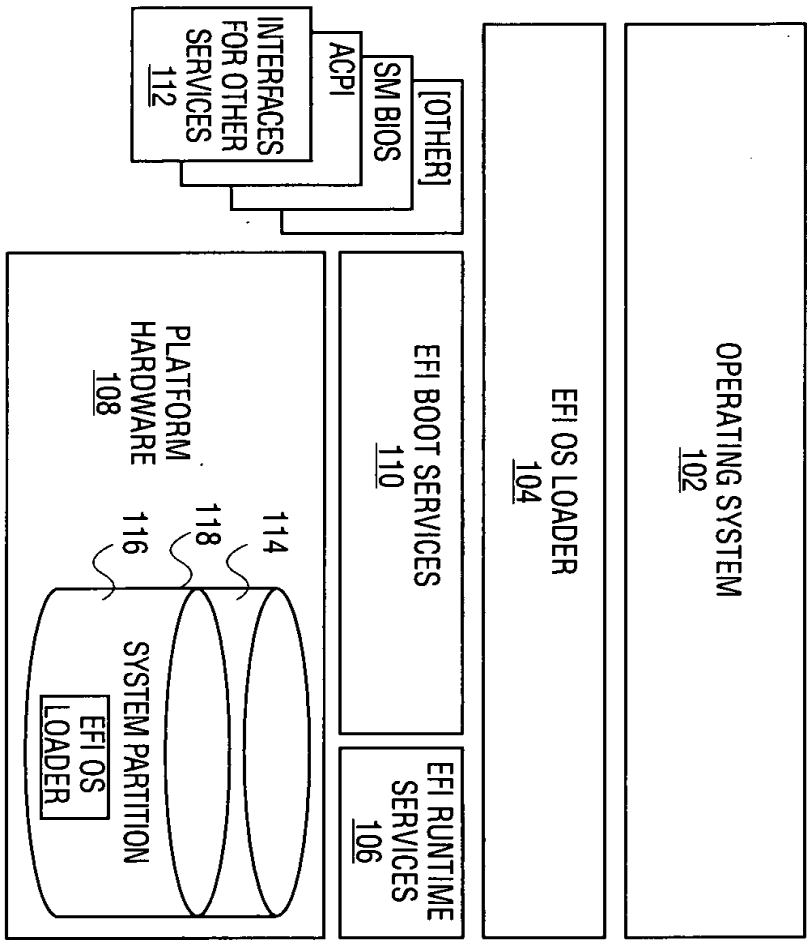
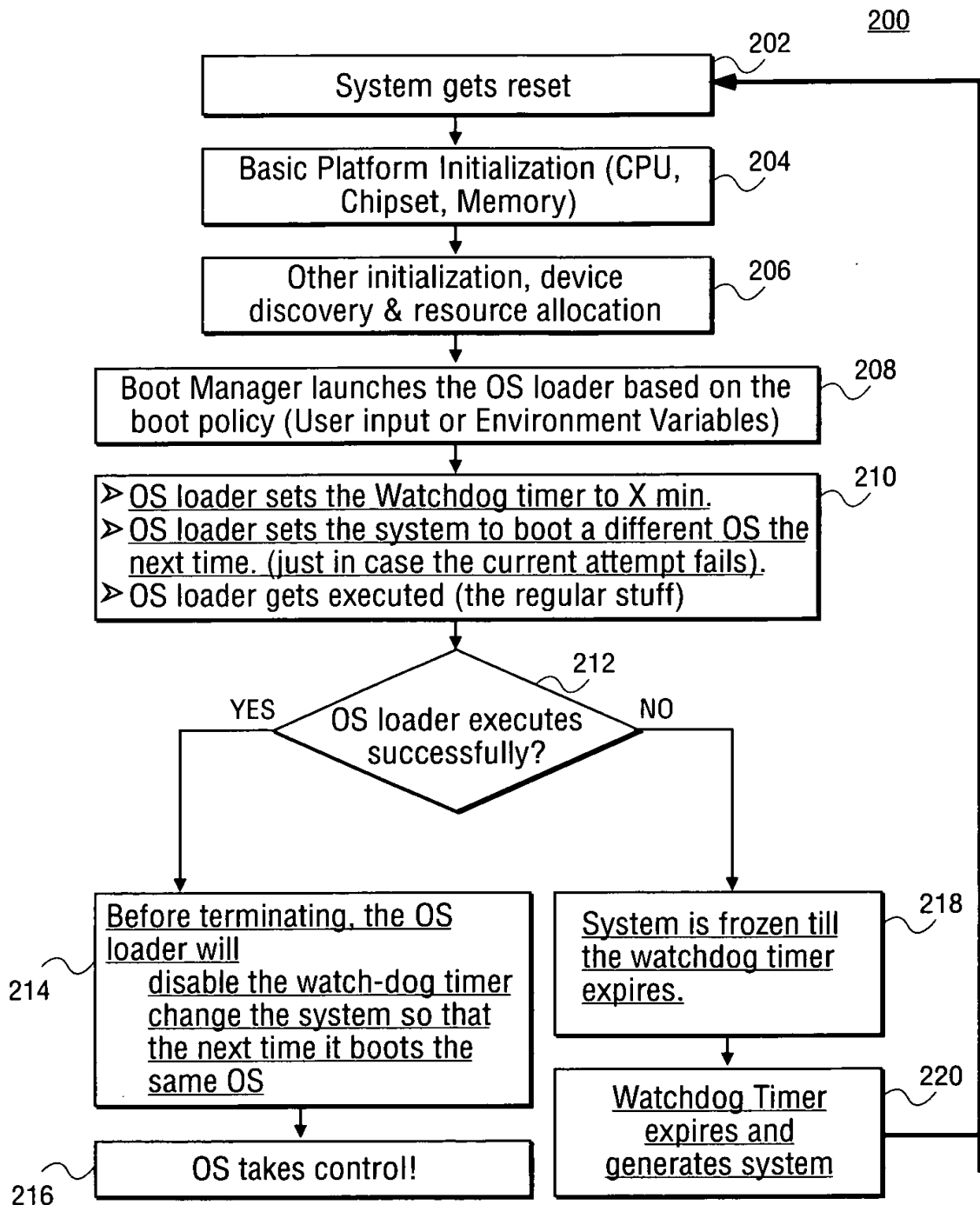


FIG. 2



**FIG. 3**

```

// Each OS loader can choose their own timer duration dependent on how long they need to boot
SetWatchDogTimer(360, //set the watchdog timer for 6min - 5 * 60 seconds
0xffff, //OEMs can choose any number other than those between 0x0000-0xFFFF, 0);

```

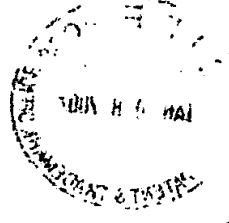
```

// Set the BootNext variable to the appropriate value. It will be used in the next reboot if the current attempt fails.
// BootCurrent will have the OS loader that will be used for the current boot. This will set by the boot manager.
// So get that value in the variable "CurrentlySelectedBootLoader):
GetVariable (L"BootCurrent" .....,CurrentlySelectedBootLoader);
// We have to find out what OS loader is next to the currently selected one in the system's BootOrder.
GetVariable (L"BootOrder" .....,SystemBootOrder);
// Get the number of elements in SystemBootOrder. BootOrder is an array of UINT16s.
int LengthOfArray = sizeof (SystemBootOrder) / sizeof (UINT16);
// Now scan through the list of boot options in Boot Order. (BootOrder is an ordered list of boot options)
for (int i=0; i < LengthOfArray; i++)
{
    if (i == LengthOfArray - 1) //Extreme condition when no other boot options are available to try.
    {
        Exit(); //Exits to the firmware shell it has exhausted all the possible OS boot options.
        // This behavior can be customized by the OEMs to alert an administrator or do other things.
    }
    // if the given element in the array is the currently selected OS loader stored in BootCurrent, then...
    if (SystemBootOrder[i] == CurrentlySelectedBootLoader)
    {
        // if the current boot attempt fails, we must boot the next OS as specified in the BootOrder
        // So, set the BootNext variable to the appropriate value i.e., the next element in the BootOrder
        // list
        SetVariable(L"BootNext" ,.....sizeof(UINT16), SystemBootOrder[i+1]);
        break;
    }
}

```

**FIG. 4A**

TO FIG. 4B



FROM FIG. 4A

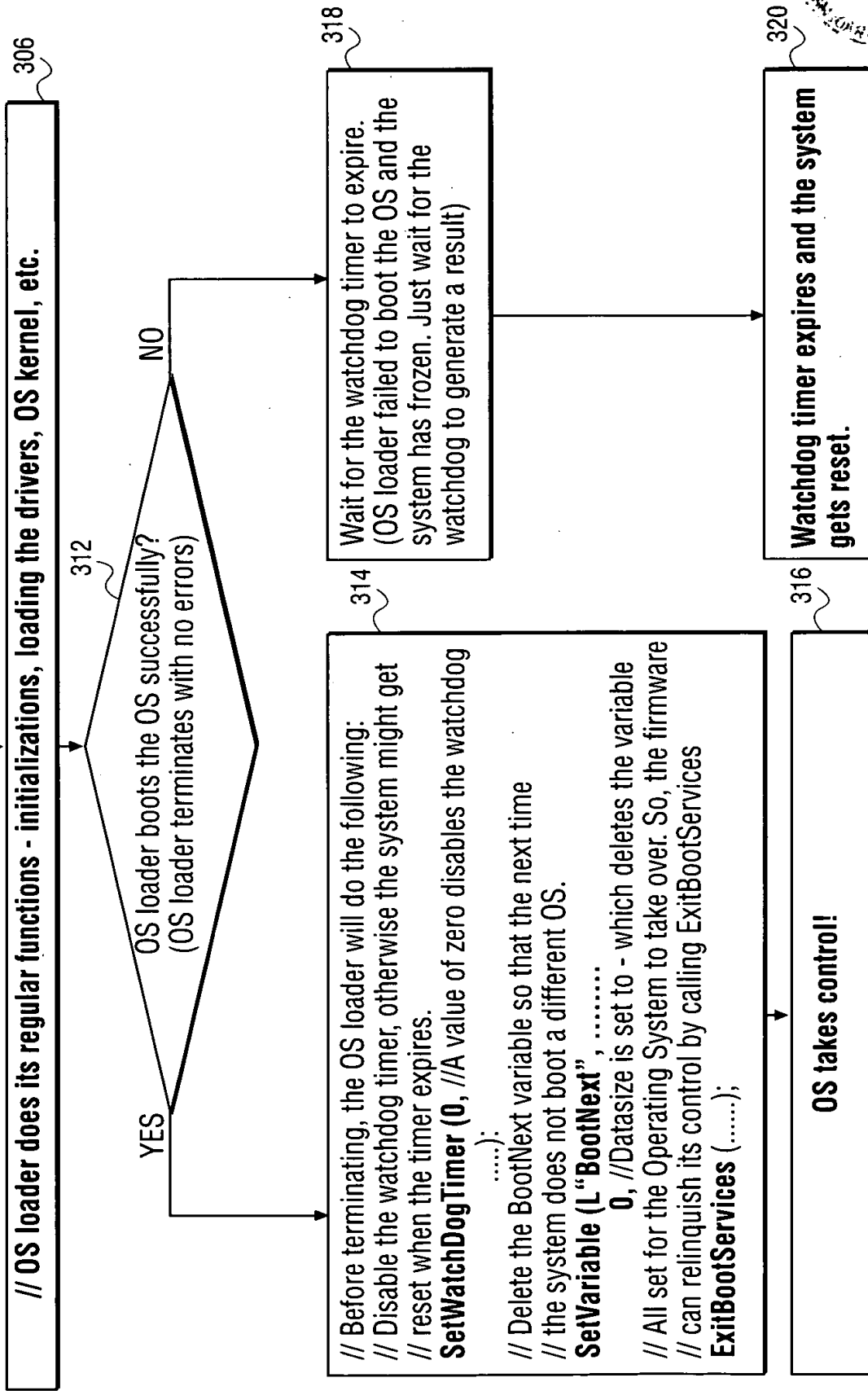


FIG. 4B